**BRUHAT BANGALORE MAHANAGARA PALIKE**

**YELAHANKA ZONE**

**Estimate Cost Rs. 700000.00**

**Name of Work: Annual maintenance of borewell in 110 village area of in Someshwara ward no:03 of Yelahaka Satellite Town Sub Division**

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps **PWD SR 2018-19 P. XLI Item No. 35 including of all taxes** | | | | | | | | | |
| | 12.5 HP 25 Stage | Nos | 1 | | | | 1 | 56414.00 | **56414.00** |
| 2 | Providing GI Pipe 50 mm 'B' Class **Page No. XLVII, Sl No. 1 PWD SR 2018-19** | | | | | | | | |
| | | m | 1 | 120.00 | | | **120.00** | 415.00 | **49800.00** |
| | | | | | | | | | |
| 3 | Providing Collar 50 mm **Page No. XLVII, Sl No. 1 PWD SR 2018-19** | | | | | | | | |
| | | Nos | 1 | | | | **1.00** | 180.00 | **180.00** |
| | | | | | | | | | |
| 4 | Submersible Cable 1x3x6.0 Sq.mm **(PWD SR 2018-19 Page No. XLVII Sl No. 8)** | | | | | | | | |
| | | m | 1x2 | 120.00 | | | **240** | 144.00 | **34560.00** |
| 5 | Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00) **Page No. 558, Items No-3 BWSSB SR for 2014-15 )** | | | | | | | | |
| | ( 240/6)=40.00 | Per Length | 1 | 40.00 | | | **40** | 88.00 | **3520.00** |
| 6 | Transportation of pumping machineries **(P. 94 / I. 12.34.H) RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 1085.00 | 10850.00 |
| 7 | Labour charges (over hauling) **(P. 94 / I. 12.34.K) RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 3060.00 | 30600.00 |
| 8 | A) Repairs to Motor: Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months. **P No. 93 / I. No. 12.33) (RWS SR 2019-** | | | | | | | | |
| | B) 10 HP Motor | | 10 | | | | 10 | 4760.00 | 47600.00 |
| | upto 5 HP 2500.00 | | | | | | | | |
| | for 10 HP (120 x 10) 1200.00 | | | | | | | | |
| | Total 3700 | | | | | | | | |
| | 111.00 | | | | | | | | |
| | 3811.00 | | | | | | | | |
| | **Maintenance of exisiting borewells** | | | | | | | | |
| 9 | **B) Replacement of Motor Parts:** | | | | | | | | |
| 10 | Starter 5 HP (with one year Guarantee) **P No. 93 / I No. 12.33.2C RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | **10** | 5535.00 | **55350.00** |
| 11 | Rotor (with one year Guarantee) **P No. 93 / I No. 12.33.3C RWS SR (2019-20)** | | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | Each | 10 | | | | 10 | 5175.00 | 51750.00 |
| 12 | Upper Flange **(P No. 93 / I No. 12.33.3D RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 400.00 | 4000.00 |
| 13 | Lower Flange **(P No. 93 / I No. 12.33.3E RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 400.00 | 4000.00 |
| 14 | Upper Housing **(P No. 93 / I No. 12.33.3F RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 724.00 | 7240.00 |
| 15 | Lower Housing **(P No. 93 / I No. 12.33.3G RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 724.00 | 7240.00 |
| 16 | **Carbon housing** Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad. **P. No. 94 / I No.12.34.A RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 1137.00 | 11370.00 |
| 17 | C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement. | | | | | | | | |
| 18 | Oil Seal **P. No. 93 / I No.12.32.1C RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 171.00 | 1710.00 |
| 19 | Oil Seal Steel bush **P. No. 152 / I No.12.32.1D RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 171.00 | 1710.00 |
| 20 | Guide vane **P. No. 93 / I No.12.32.1E RWS SR (2019-20)** | | | | | | | | |
| | | Each | 145 | | | | 145 | 450.00 | 65250.00 |
| 21 | Impeller Shell moulded with aluminium Bronze) **P. No. 93 / I No.12.32.1F RWS SR (2019-20)** | | | | | | | | |
| | | Each | 145 | | | | 145 | 682.00 | 98890.00 |
| 22 | Discharge outlet (D.O) Bearing D.O Steel Bush **P. No. 93 / I No.12.32.1G RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 640.00 | 6400.00 |
| 23 | Steel bush ( D.O steel bush) **P. No. 93 / I No.12.32.1I RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 213.00 | 2130.00 |
| 24 | Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P. No. 93 / I No.12.32.1K RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 1281.00 | 12810.00 |
| 25 | Non – return valve (NRV) assembly complete with rubber 'O' Ring **P. No. 93 / I No.12.32.1N RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 315.00 | 3150.00 |
| 26 | Cable Guard **P. No. 93 / I No.12.32.1O RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 176.00 | 1760.00 |
| 27 | Brass Filter **P. No. 93 / I No.12.32.1Q RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 636.00 | 6360.00 |
| 28 | Re-erection charges of pumping machineries including overhauling and pointing **P. No. 93 / I No.12.34.I RWS SR (2019-20)** | | | | | | | | |
| | | Each | 10 | | | | 10 | 1711.00 | 17110.00 |
| | | | | | | | | **TOTAL** | **591754.00** |
| | | | | | | | | **GST 18% (PWD 2018-19 items)** | **106515.72** |
| | | | | | | | | **Sub Total** | **698269.72** |

| No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Miscellaneous | 1730.28 |
| | | | | | | | | Total | 700000.00 |

**CERTIFICATE**

1 The work spot has been inspected and the work is found necessary.

2 This Estimate is prepared as per C.S.R. of PWD 2018-19 PWD Elecrical 2017-18, PRED 2017 -18& RDED SR 2014-15 & SE RDED approved Rate.

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
Bruhat Bangalore Mahanagara Palike

Executive Engineer
Yelahanka Division
Bruhat Bangalore Mahanagara Palike

Administrative Sanction for Rs. 7.00 Lakhs
Rupees Seven lakhs Only
is accorded under head P.3726
POLD Works
Registered as CE No. 19 Subject to conditions contained in enclosed memo No. BBMP/EE/YNK-D/AS/19/22-23 Dt. 08/08/2021

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 7.00 Lakhs
Rupees Rupees Seven Lakhs Only
Under P.3726
POLD Works
Registered as CE ( ) No. 07 99
Subject to conditions contained in enclosed memo EE ( ) No. 07 /99
Dt. 08/02/2022 Estimate A/ Sanctioned
BBMP/EE/YNK-D/TS/07/22-23 No. 07
Dated 08/02/2022 Rs. 07.00 Lks

Executive Engineer